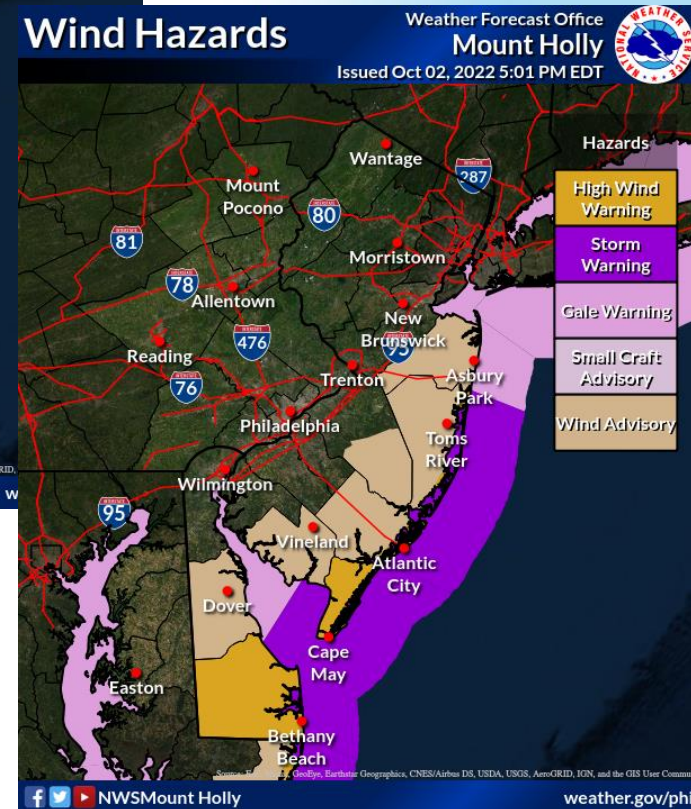# Coastal Flooding, High Surf, & Rain

Decision Support Briefing #3 As of: 6 PM, Sunday, Oct. 2, 2022

Coastal Flood
Weather Forecast Office
Mount Holly
Issued Oct 02, 2022 4:59 PM EDT

Hazards

Coastal Flood Warning

Coastal Flood Advisory

NWSMount Holly

Wind Hazards
Weather Forecast Office
Mount Holly
Issued Oct 02, 2022 5:01 PM EDT

Hazards

High Wind Warning

Storm Warning

Gale Warning

Small Craft Advisory

Wind Advisory

NWSMount Holly

weather.gov/phi

What Has Changed?

✓ *Increasing risk for strong winds on land*
✓ *Minor flooding expected for the tidal Delaware River*

Main Points

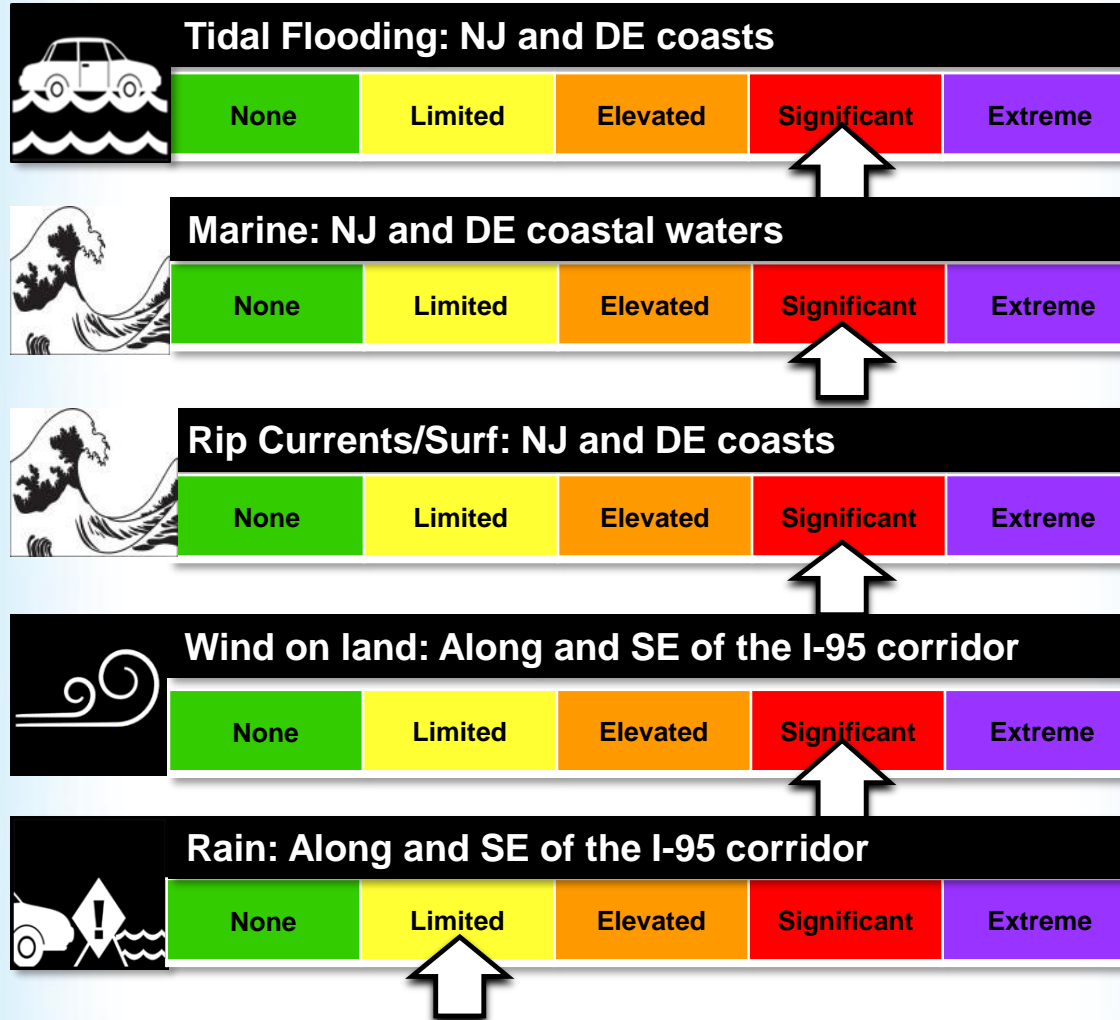| Hazard		Impacts	Location	Timing
Coastal Flooding		Minor to moderate, with possible major tidal flooding.	Moderate flooding in S DE and the S and central NJ coast. Minor flooding possible for much of other areas. Highest risk for major flooding is near Sussex County DE.	Monday and Tuesday afternoon high tide cycles
Marine		Wind gusts up to 50 kt with seas up to 15 ft.	NJ and DE coastal waters and the Delaware Bay	Gale and storm force gusts Sun into Monday. Highest seas expected Monday
Rip Current/ Surf		Very dangerous surf and rip current conditions are expected. Some beach erosion possible.	The DE and NJ coasts	Through at least Monday
Winds on Land		Wind gusts 45 to 60 mph are expected. This could lead to minor tree and wire damage.	Along and SE of I-95 corridor; highest winds at the coast	Through late tonight
Rain		Additional rain amounts of 1 to 4 inches could cause localized flooding and exacerbate tidal flooding	Along and SE of I-95 corridor; highest amounts expected in SE NJ and S DE	Periods of light to moderate rain possible through Tue

Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM

Summary of Greatest Impacts

Tidal Flooding: NJ and DE coasts

None	Limited	Elevated	Significant	Extreme

Marine: NJ and DE coastal waters

None	Limited	Elevated	Significant	Extreme

Rip Currents/Surf: NJ and DE coasts

None	Limited	Elevated	Significant	Extreme

Wind on land: Along and SE of the I-95 corridor

None	Limited	Elevated	Significant	Extreme

Rain: Along and SE of the I-95 corridor

None	Limited	Elevated	Significant	Extreme

Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM
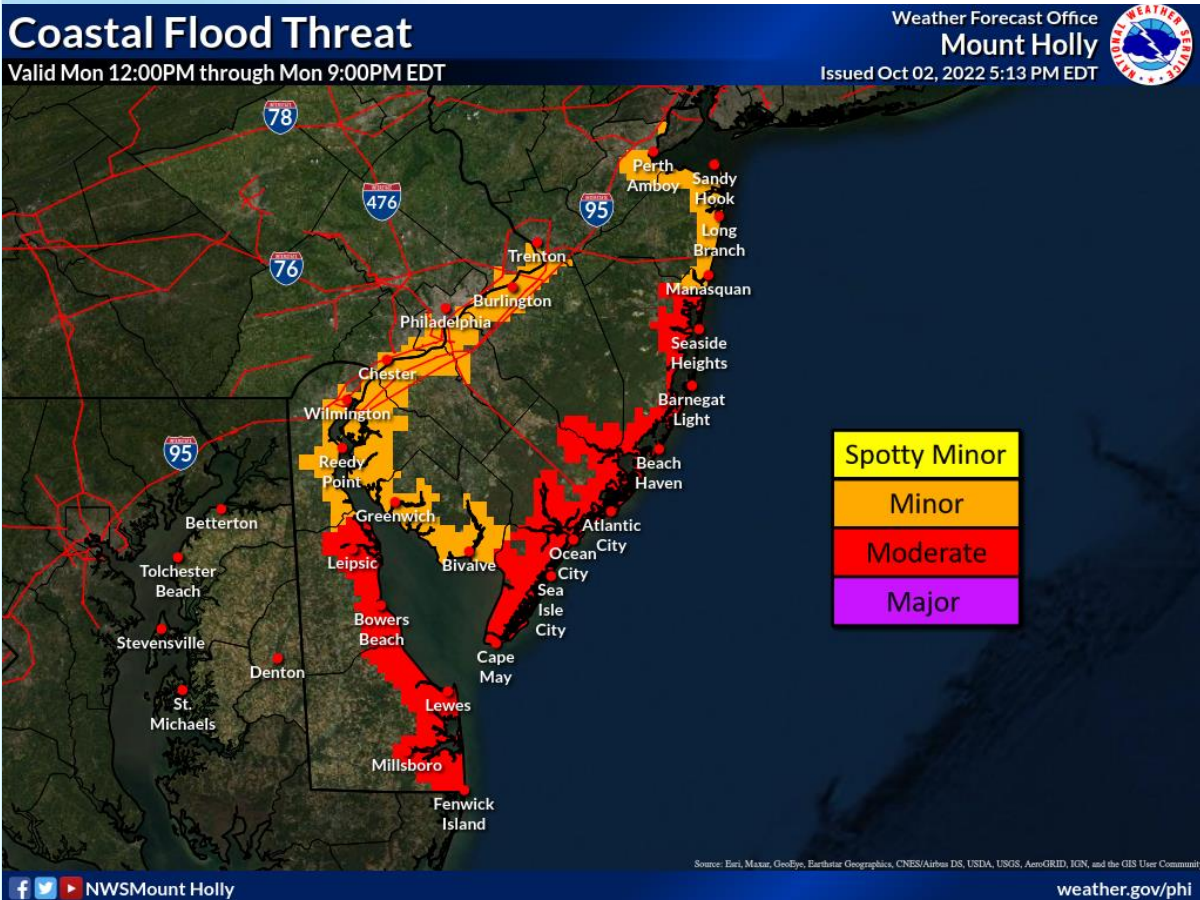
Rainfall Amounts

Additional Forecast Rain Amounts through Tuesday

- ✓ Forecast for additional rain from tonight through Tuesday night
- ✓ Periods of light to moderate rain are expected.
- ✓ Although widespread freshwater flooding isn't expected, rain, especially close to high tide could exacerbate coastal flooding
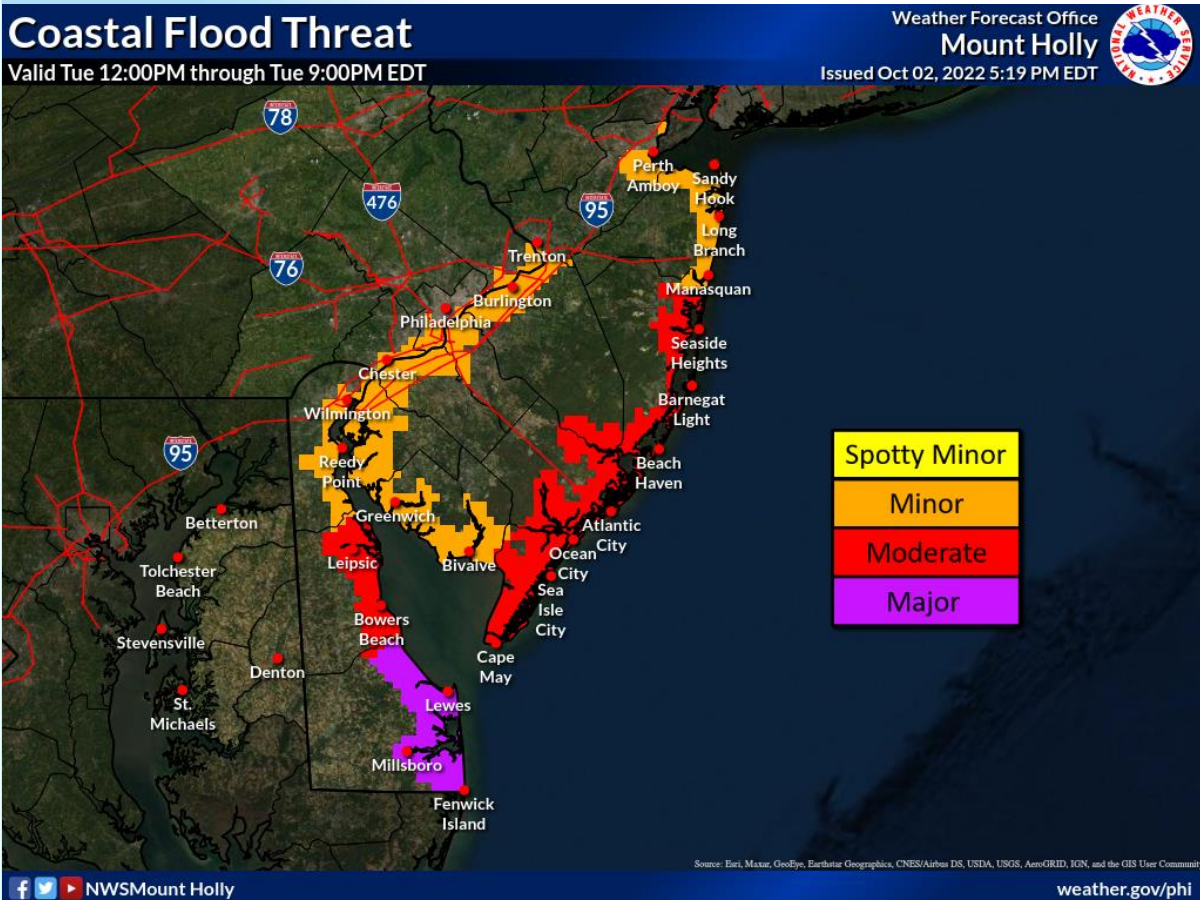
Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM

Coastal Flooding Monday

Coastal Flood Threat
Valid Mon 12:00PM through Mon 9:00PM EDT

Weather Forecast Office
Mount Holly
Issued Oct 02, 2022 5:13 PM EDT

Legend:
- Spotty Minor
- Minor
- Moderate
- Major

NWSMount Holly

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

weather.gov/phi

Tidal flooding potential Monday afternoon

- ✓ This graphic shows the potential magnitude of flooding on the oceanfront, bays, and estuaries along the highlighted areas for the Monday afternoon high tide.
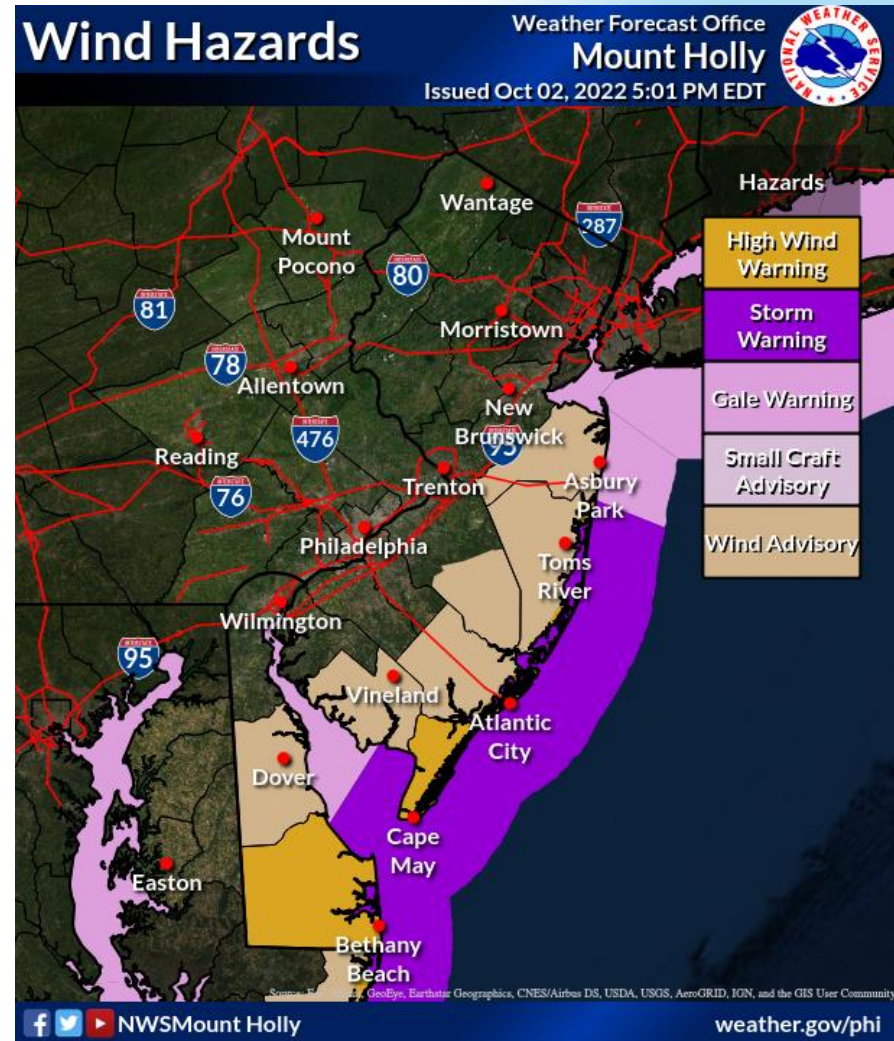- ✓ Likely to have longer lasting and higher impacts on back bays than the ocean front
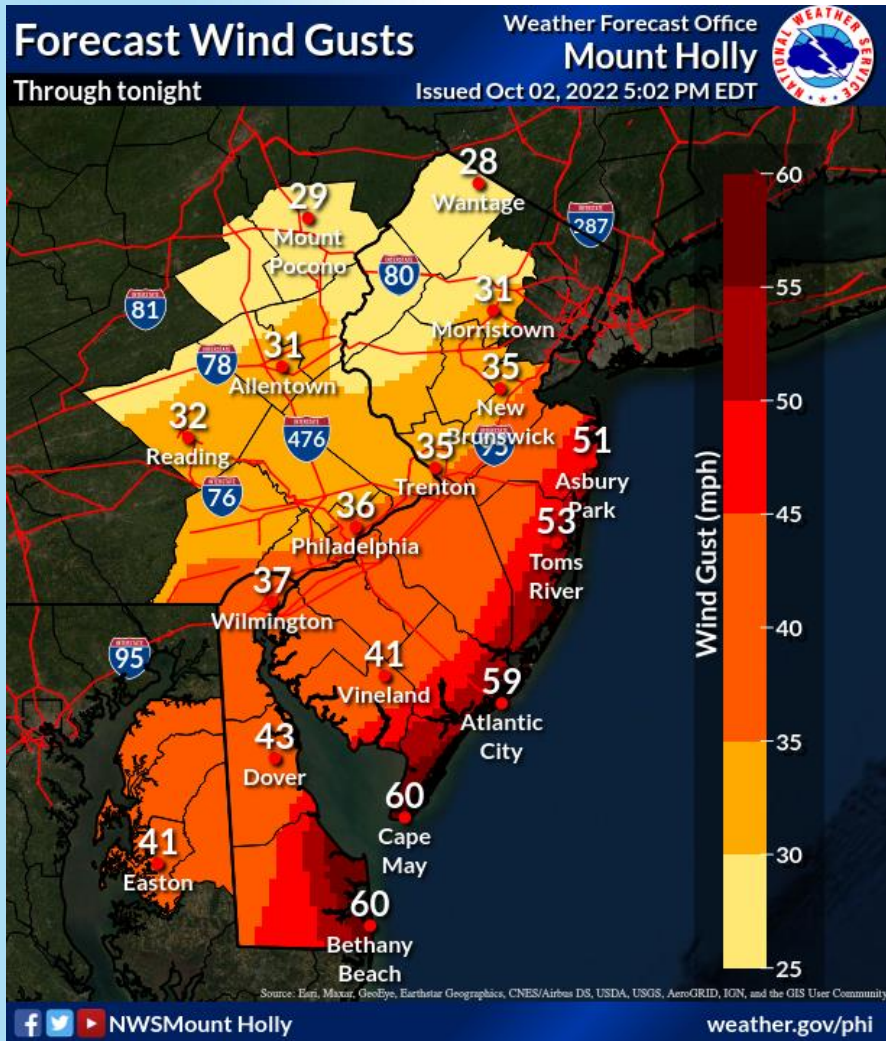
Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM

Coastal Flooding Tuesday

Coastal Flood Threat
Valid Tue 12:00PM through Tue 9:00PM EDT

Weather Forecast Office
Mount Holly
Issued Oct 02, 2022 5:19 PM EDT

Spotty Minor
Minor
Moderate
Major

NWSMount Holly

Tidal flooding potential Tuesday afternoon high tide

✓ This graphic shows the potential magnitude of flooding on the oceanfront, bays, and estuaries along the highlighted areas for the Tuesday afternoon high tide.

✓ Impacts may linger longer on back bays

Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM

Winds

Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

**Presentation Created**
10/2/2022 5:23 PM

Event Summary

✓ A prolonged period of onshore flow and rain will bring a few different impacts to the region.

✓ Coastal flooding is possible through the first half of the week. The Monday and Tuesday afternoon high tides are expected to have the worst impacts, with moderate flooding possible with that tide cycle for southern Delaware and the central and southern New Jersey coast. Localized major tidal flooding is possible. Impacts may linger longer and be worse on back bays than the ocean front, especially Sunday and Monday.

✓ Strong onshore flow will result in hazardous conditions for mariners and beach goers. Dangerously high surf could result in some beach erosion. A high risk of rip currents is expected through at least Monday.

✓ Winds of 45 to 60 mph for portions of southern Delaware and Eastern New Jersey could result in minor tree and wire damage through late tonight.

✓ Periods of light to moderate rain are possible through Tuesday. Widespread flooding is not expected, but rain could exacerbate tidal flooding.

Contact and Next Briefing Information

Next Briefing
When: *Final Briefing*

Briefing Webpage:
www.weather.gov/media/phi/current_briefing.pdf
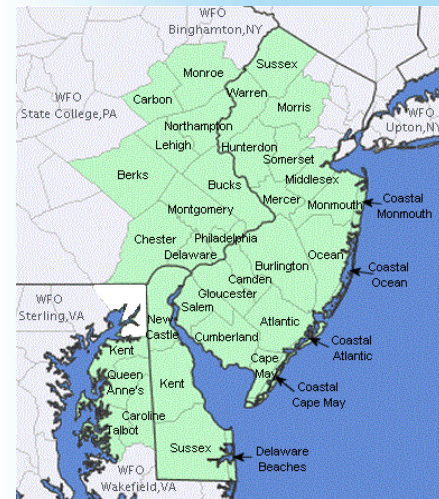
Web:
www.weather.gov/phi

Phone (public):
(609) 261-6600

Facebook:
NWSMountHolly

Twitter:
@NWS_MountHolly

Disclaimer: *The information contained within this briefing*
is time-sensitive; do not use after the next briefing package issuance

Weather Forecast Office
Philadelphia/Mount Holly

@NWS_MountHolly

NWSMountHolly

Presentation Created
10/2/2022 5:23 PM